RESEARCH, DEVELOPMENT & TECHNOLOGY TRANSFER
QUARTERLY PROGRESS REPORT

Wisconsin Department of Transportation
DT1241 7/2010

INSTRUCTIONS:
Research project investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

WisDOT research program category: ☐ Policy research ☒ Wisconsin Highway Research Program ☐ Other ☐ Pooled fund TPF#		Report period year: ☐ Quarter 1 (Jan 1 – Mar 31) ☐ Quarter 2 (Apr 1 – Jun 30) ☐ Quarter 3 (Jul 1 – Sep 30) ☒ Quarter 4 (Oct 1 – Dec 31)
Project title: Foundation Movements for Transportation Structures		
Project investigator: James Schneider	Phone: 608-890-2662	E-mail: jamess@cae.wisc.edu
Administrative contact: Peg Lafky	Phone: 608-266-3633	E-mail:
WisDOT contact: Robert Arndorfer	Phone: 608-246-7940	E-mail:
WisDOT project ID: 0092-09-05	Other project ID:	Project start date: 2/5/2009
Original end date: 2/5/2012	Current end date: 2/5/2012	Number of extensions: 0

Project schedule status:
☐ On schedule ☐ On revised schedule ☐ Ahead of schedule ☒ Behind schedule

Project budget status:

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
$109,893.00	$3,071.28	$45,992.34	42%	38%

Project description:
The overall research objective of this study is to produce a document summarizing simplified design procedures for evaluation of foundation movements for transportation structures within the LRFD framework. Recommendations for the measurement and selection of input parameters for those design procedures will also be provided.

Progress this quarter (includes meetings, work plan status, contract status, significant progress, etc.):
The main activities this quarter included continued monitoring of load measuremetns at each site and initial surveying. Additionally, access to information from a 5th site in Green Bay (instrumented by othrs) was arranged with Jeff Horsfall. A meeting took place at WISDOT with Jeff Horsfall and Bob Arndorfer to discuss project progress.

Anticipated work next quarter:
Continued data measurement and processing are planned for this quarter.

Circumstances affecting project or budget:
It has been diffuicult finding a sufficient number of sites for instrumentation. Mr. Horsfall and Mr. Arndorfer have been

providing potential sites to us as they become available, but only 5 sites were available this summer. The remaining 10 sites for the project must be instrumented next summer, which appears unlikely. Based on the number of sites instrumented, and assuming a similar level of production next summer, I would expect that we are one year behind schedule. If we instrument 5 to 6 sites next summer and 5 to 6 sites the following summer we would complete instrumentation of the 15 required sites. These delays lead to potential problems with the project budget. We have funds for approximately 12 months of a student time remaining, which would only allow for instrumentation of sites next summer. This would likely not allow for completion of the project requirements. Continued discussion with Mr. Horsfall and Mr. Arndorfer this quarter will be undertaken to try to figure out the best way to meet project goals and requirements in a timely and cost effective manner.

Insert Gantt chart and other project documentation – attach additional pages if necessary
see attached sheet

FOR WISDOT USE ONLY

Staff receiving QPR:	Date received:
Staff approving QPR:	Date approved:

	Oct 2008 - Sept 2009				Oct 2009 - Sept 2010				Oct 2010 - Sept 2011				2011/2012	
Activity	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Task 1 - Literature Review / Database development & interpretation														
Commence Project			X											
Develop database of load tests														
Analyze existing methods														
FE parametric studies														
Develop list of potential field sites														
Assess appropriate instrumentation														
Task 2 - Field monitoring and interpretation														
Field testing for shallow foundations														
Field testing for deep foundations														
Field testing for lateral piles analysis														
Data compilation and analysis														
Reporting	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Quarterly			X	X	X	X	X	X	X	X	X	X	X	X
POT Review						X							X	
Literature Review										D	F			
Final Report													D	F

D = Draft Report; F = Final Report

Project not started until February 2009